

Course Offering Schedule for Mechanical Engineering Program

YEAR 1 / SEMESTER I

Course Code	Course Title	CP	Lec	Lab	Tut	HS
EnLa1011	Communicative English Skills	5	2	0	3	5
Phil1011	Reasoning Skill (Logic)	3	1	0	2	3
MEng1031	Engineering Drawing	5	2	3	0	5
CEng1061	Engineering Mechanics I – Statics	5	2	0	3	5
GEng1031	Introduction to Engineering Profession	2	2	0	0	2
Math1041	Applied Mathematics I	6	3	0	3	6
Econ1021	Introduction to Economics	4	3	0	0	5
Total		30	15	3	11	31

YEAR 1 / SEMESTER II

Course Code	Course Title	CP	Lec	Lab	Tut	HS
MEng1062	Engineering Mechanics II – Dynamics	5	2	0	3	5
MEng1032	Basic Workshop Practice	2	1	3	0	0
MEng1072	Strength of Materials I	5	2	1	3	4
Math1042	Applied Mathematics II	6	3	0	3	6
EnLa1022	Basic Writing Skills	5	2	0	3	5
CvEt2012	Civics and Ethical Education	5	2	0	3	5
Total		28	12	4	15	25

YEAR 2 / SEMESTER I

Course Code	Course Title	CP	Lec	Lab	Tut	HS
MEng2091	Engineering Thermodynamics I	5	2	0	3	5
MEng2081	Engineering Materials I	5	2	3	0	5
MEng2111	Machine Drawing	5	1	3	3	3
MEng2071	Strength of Materials II	5	2	1	3	4
Math2041	Applied Mathematics III	6	3	0	3	6
CoSc2051	Introduction to Computer Programming	5	2	3	0	5
Total		31	12	10	12	28

YEAR 2 / SEMESTER II

Course Code	Course Title	CP	Lec	Lab	Tut	HS
MEng2082	Engineering Materials II	4	2	1	2	3
MEng2092	Engineering Thermodynamics II	5	2	0	3	5
MEng2122	Machine Elements I	5	2	0	3	5
MEng2112	Computer Aided drafting and design	5	1	5	0	4
MEng2042	Numerical and Computational Methods	5	2	3	2	3
MEng2094	Fluid Mechanics I	5	2	0	3	5
Total		29	11	9	13	25

YEAR 3 / SEMESTER I

Course Code	Course Title	CP	Lec	Lab	Tut	HS
MEng3061	Mechanisms of Machinery	5	2	1	2	5
MEng3091	Fluid Mechanics II	5	2	0	3	5
Stat3041	Probability and Statistics for Engineers	4	2	0	3	3
MEng3121	Machine Elements II	5	2	0	3	5
MEng3141	Workshop Technology	4	1	5	0	2
MEng3101	Heat Transfer	5	2	0	3	5
EEng3201	Fundamentals of Electricity and Electronics	4	2	2	0	4
Total		32	13	8	14	29

YEAR 3 / SEMESTER II

Course Code	Course Title	CP	Lec	Lab	Tut	HS
MEng3152	Turbo machinery	5	2	2	3	3
MEng3062	Mechanical Vibration	5	2	1	2	5
EEng3202	Electrical Machines and Drives	4	2	2	2	2
MEng3192	Instrumentation and Measurement	4	2	1	2	3
MEng3132	Machine Design Project	5	1	5	0	4
MEng3142	Manufacturing Engineering I	5	2	3	2	3
MEng3092	Thermo-Fluid Laboratory	3	0	4	0	2
Total		31	11	18	11	22

YEAR 4 / SEMESTER I

Course Code	Course Title	CP	Lec	Lab	Tut	HS
MEng4181	Material Handling Equipment	5	2	0	3	5
AEng4151	IC Engines and Reciprocating Machines	5	2	2	2	4
MEng4191	Fluid Power Systems	4	2	1	3	2
AEng4171	Motor Vehicle Engineering	4	2	3	0	3
MEng4141	Manufacturing Engineering II	5	2	3	2	3
Meng4281	Research Method	3	1	0	3	2
MEng4211	Holistic Exam	2	0	0	2	2
Elective I						
MEng		6	-	-	-	-
Total		34	-	-	-	-

YEAR 4 / SEMESTER II

Course Code	Course Title	CP	Lec	Lab	Tut	HS
MEng4212	Industrial Internship	30	0	40	0	20
Total		30	0	40	0	20

YEAR 5 / SEMESTER I

Course Code	Course Title	CP	Lec	Lab	Tut	HS
MEng5161	Power Plant Engineering	5	2	0	3	5
MEng5131	Introduction to Finite Element Method	5	2	2	2	4
MEng5181	Maintenance and Installation of Machinery	4	2	3	0	3
IEng5021	Entrepreneurship for Engineers	4	2	0	3	3
MEng5163	Refrigeration and Air conditioning	5	2	1	3	4
Elective II						
MEng		5	-	-	-	-
Elective III						
MEng		5	-	-	-	-
Total		33	-	-	-	-

YEAR 5 / SEMESTER II

Course Code	Course Title	CP	Lec	Lab	Tut	HS
IEng5022	Industrial Management & Engineering Economy	4	2	0	3	3
EEng5194	Regulation and Control	5	2	2	1	5
MEng5192	Introduction to Mechatronics	5	2	2	1	5
MEng5282	Final Year Project	15	0	15	0	15
Total		29	6	19	5	28

MECHANICAL DESIGN ELECTIVE COURSES

Course Code	Course Title	CP	Lec	Lab	Tut	HS
MEng4221	Machinery Design (Elective I)	6	2	5	0	5
MEng5221	Product Design and Development (Elective II)	5	2	3	3	2
MEng5223	Rotor Dynamics (Elective III)	5	2	0	3	5
<i>Total</i>		16	6	8	6	12

THERMAL ENGINEERING ELECTIVE COURSES

Course Code	Course Title	CP	Lec	Lab	Tut	HS
MEng4231	Thermo-Fluid System Design (Elective I)	6	1	6	0	5
MEng5231	Gas Turbine and Jet Population (Elective II)	5	2	3	0	5
MEng5233	Computational Heat Transfer and Fluid Flow (Elective III)	5	2	4	0	4
<i>Total</i>		16	5	13	0	14

MANUFACTURING ENGINEERING ELECTIVE COURSES

Course Code	Course Title	CP	Lec	Lab	Tut	HS
MEng4241	Tools Jigs and Die Design (Elective I)	6	2	3	3	4
MEng5241	CAM and CIM (Elective II)	5	2	5	0	3
IEng5243	Process Planning and Product Costing (Elective III)	5	2	0	3	5
<i>Total</i>		16	6	8	6	12

RAIL WAY ENGINEERING ELECTIVES

Course Code	Course Title	CP	Lec	Lab	Tut	HS
MEng4251	Fundamentals of Rail ways systems engineering (Elective I)	6	2	0	5	5
MEng5251	Motive power Design (Elective II)	5	2	3	2	3
MEng5253	Rail Vehicle Design (Elective III)	5	2	0	3	5
<i>Total</i>		16	6	3	10	13

RENEWABLE ENERGY ENGINEERING ELECTIVE COURSES

Course Code	Course Title	CP	Lec	Lab	Tut	HS
MEng4261	Renewable Energy Technology I (Elective I)	6	2	0	4	6
MEng5261	Renewable Energy Technology II (Elective II)	5	2	0	3	5
MEng5263	Design of Renewable Energy Systems (Elective III)	5	3	0	3	4
<i>Total</i>		16	7	0	10	15

AGRO-MACHINERY AND PROCESS ENGINEERING ELECTIVE COURSES

Course Code	Course Title	CP	Lec	Lab	Tut	HS
MEng4271	Agro-Machinery and Processing I (Elective I)	6	2	0	5	5
MEng5271	Agro-Machinery and Processing II (Elective II)	5	2	0	3	5
MEng5273	Fundaments Principles and Agricultural Machinery Design (Elective III)	5	1	6	0	3
<i>Total</i>		16	5	6	8	13